



SEQUENCE LISTING

<110> Max-Delbrück-Centrum für Molekulare Medizin

<120> Human and murine G-protein coupled EDG6 receptor
(endothelial differentiation gene) and use of same

<130> 101195-45

<140> U.S. 09/786,926

<141> 2001-03-09

<150> DE 198 43 240.2

<151> 1998-09-11

<150> DE 198 46 979.9

<151> 1998-10-13

<150> PCT/DE 99/02871

<151> 1999-09-10

<160> 4

<170> PatentIn Ver. 2.1

<210> 1

<211> 384

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: human
G-protein-coupled EDG6 receptor

<400> 1

Met Asn Ala Thr Gly Thr Pro Val Ala Pro Glu Ser Cys Gln Gln Leu
1 5 10 15

Ala Ala Gly Gly His Ser Arg Leu Ile Val Leu His Tyr Asn His Ser
20 25 30

Gly Arg Leu Ala Gly Arg Gly Gly Pro Glu Asp Gly Gly Leu Gly Ala
35 40 45

Leu Arg Gly Leu Ser Val Ala Ala Ser Cys Leu Val Val Leu Glu Asn
50 55 60

Leu Leu Val Leu Ala Ala Ile Thr Ser His Met Arg Ser Arg Arg Trp
65 70 75 80

Val Tyr Tyr Cys Leu Val Asn Ile Thr Leu Ser Asp Leu Leu Thr Gly
85 90 95

Ala Ala Tyr Leu Ala Asn Val Leu Leu Ser Gly Ala Arg Thr Phe Arg
100 105 110

Leu Ala Pro Ala Gln Trp Phe Leu Arg Glu Gly Leu Leu Phe Thr Ala
115 120 125

Leu Ala Ala Ser Thr Phe Ser Leu Leu Phe Thr Ala Gly Glu Arg Phe
 130 135 140

Ala Thr Met Val Arg Pro Val Ala Glu Ser Gly Ala Thr Lys Thr Ser
 145 150 155 160

Arg Val Tyr Gly Phe Ile Gly Leu Cys Trp Leu Leu Ala Ala Leu Leu
 165 170 175

Gly Met Leu Pro Leu Leu Gly Trp Asn Cys Leu Cys Ala Phe Asp Arg
 180 185 190

Cys Ser Ser Leu Leu Pro Leu Tyr Ser Lys Arg Tyr Ile Leu Phe Cys
 195 200 205

Leu Val Ile Phe Ala Gly Val Leu Ala Thr Ile Met Gly Leu Tyr Gly
 210 215 220

Ala Ile Phe Arg Leu Val Gln Ala Ser Gly Gln Lys Ala Pro Arg Pro
 225 230 235 240

Ala Ala Arg Arg Lys Ala Arg Arg Leu Leu Lys Thr Val Leu Met Ile
 245 250 255

Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu Leu Leu
 260 265 270

Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu Arg Gly
 275 280 285

Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val Asn Pro
 290 295 300

Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val Leu Ser
 305 310 315 320

Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro Gly Asp
 325 330 335

Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr Thr Asp
 340 345 350

Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser Leu Ser
 355 360 365

Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg Ser Ile
 370 375 380

<210> 2
 <211> 1155
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: human edg6
 cDNA

<400> 2
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 ccggaggatg gcggcctggg ggccctgcgg gggctgtcgg tggccgccag ctgcctggtg 180
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 gtgcggagca tctga 1155

<210> 3
 <211> 1161
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Description of Artificial Sequence: murine edg6
 cDNA

<400> 3
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 gggggctctg aggacgggtg agggctaggg atgctgaggg ggccgtcggg ggccgcaggc 180
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 cgccgctggg tgtactactg cctgctgaac atcacactga gtgacctgct cacaggcctg 300
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acccggatca ccgaggccca ctccggtgca tccaccactg acagctccct gaggcccgagg 1080
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 tccagcgtcc gcagcaccta g 1161

<210> 4

<211> 386

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: murine
 G-protein-coupled EDG6 receptor

<400> 4

Met Asn Ile Ser Thr Trp Ser Thr Leu Val Thr Pro Glu Ser Cys His
 1 5 10 15

Arg Leu Ala Ala Ser Gly His Ser Leu Leu Ile Val Leu His Tyr Asn
 20 25 30

His Ser Gly Arg Leu Ala Ser Arg Gly Gly Ser Glu Asp Gly Gly Gly
 35 40 45

Leu Gly Met Leu Arg Gly Pro Ser Val Ala Ala Gly Cys Leu Val Val
 50 55 60

Leu Glu Asn Ala Met Val Leu Ala Ala Ile Ala Ile Tyr Met Arg Ser
 65 70 75 80

Arg Arg Trp Val Tyr Tyr Cys Leu Leu Asn Ile Thr Leu Ser Asp Leu
 85 90 95

Leu Thr Gly Leu Ala Tyr Val Val Asn Val Leu Leu Ser Gly Thr Arg
 100 105 110

Thr Phe Gln Leu Ser Pro Val His Trp Phe Leu Arg Glu Gly Leu Leu
 115 120 125

Phe Met Ala Leu Ala Ala Ser Thr Phe Ser Leu Leu Phe Thr Ala Gly
 130 135 140

Glu Arg Phe Ala Thr Met Val Arg Val Ala Glu Ser Gly Ala Thr Lys
 145 150 155 160

Thr Ser Arg Val Tyr Gly Cys Ile Gly Leu Cys Trp Leu Leu Ala Ala
 165 170 175

Ile Leu Gly Leu Leu Pro Leu Leu Gly Trp Asn Cys Val Cys Ala Phe
 180 185 190

Pro Arg Cys Ser Ser Leu Leu Pro Leu Tyr Ser Lys Gly Tyr Val Leu
 195 200 205

Phe Cys Val Val Val Phe Ala Leu Ile Leu Val Ala Ile Leu Ser Leu
 210 215 220

Tyr Gly Ala Ile Phe Arg Val Val Arg Ala Asn Gly Gln Lys Ser Pro

225 230 235 240
 Arg Pro Pro Ala Arg Arg Lys Ser Arg Arg Leu Leu Asn Thr Val Leu
 245 250 255
 Met Ile Leu Val Ala Phe Val Val Cys Trp Gly Pro Leu Phe Gly Leu
 260 265 270
 Leu Leu Ala Asp Ile Phe Gly Ser Asn Val Trp Ala Gln Glu Tyr Leu
 275 280 285
 Arg Gly Met Asp Trp Ile Leu Ala Leu Ala Val Phe Asn Ser Ala Ile
 290 295 300
 Asn Pro Leu Ile Tyr Ser Phe Arg Ser Arg Glu Val Gln Arg Ala Val
 305 310 315 320
 Leu Ala Phe Leu Cys Cys Gly Cys Leu Trp Leu Gly Leu Arg Gly Pro
 325 330 335
 Gly Asp Cys Leu Thr Arg Ile Thr Glu Ala His Ser Gly Ala Ser Thr
 340 345 350
 Thr Asp Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Thr Ser Arg Ser
 355 360 365
 Leu Ser Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg
 370 375 380
 Ser Thr
 385

<210> 5
 <211> 30
 <212> DNA
 <213> Artificial Sequence
 <220>
 <223> Sequence of PCR Primer R1

<400> 5

ccg gat ccg cvt dvt sgg maa ykb vyt sgt

<210> 6
 <211> 29
 <212> DNA
 <213> Artificial Sequence
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 <223> Sequence of PCR Primer R3

<400> 6

cgg gat ccg aar gyr tas ads adr ggr tt

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of PCR Primer 5'hGSPRT

<400> 7

ttg gag cca aag acg tcg gcc

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of PCR Primer 5'hGSP1

<400> 8

agg cag aag agg atg tag cgc

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of PCR Primer 5'hGSP2

<400> 9

gcg ctc ccc tgc agt gaa gag

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of PCR Primer 3'hGSP1

<400> 10

agt gac ctg ctc acg ggc gcg

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence
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<223> Sequence of PCR Primer 3'hGSP2

<400> 11

ctc ttc act gca ggg gag cgc

<210> 12
<211> 24
<212> DNA
<213> Artificial Sequence
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<223> Sequence of PCR Primer 5'mGSPRT

<400> 12

ctc acc tcg tct ggg agg gcc tgc

<210> 13
<211> 24
<212> DNA
<213> Artificial Sequence
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<223> Sequence of PCR Primer 5'mGSP1

<400> 13

tgg gca act ggc tgg tcc aag ctc

<210> 14
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> Sequence of PCR Primer 5'mGSP2

<400> 14
gcc tcg ggc cca gat cct cca ggg gtg ctg cgg acg ctg gaa atg ctg g

<210> 15
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of 3' primer

<400> 15

cca cgt cct cct gcc cgc cgc

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence
<220>
<223> Sequence of CA primer

<400> 16

cca cgt cct cct gcc cgc cgc